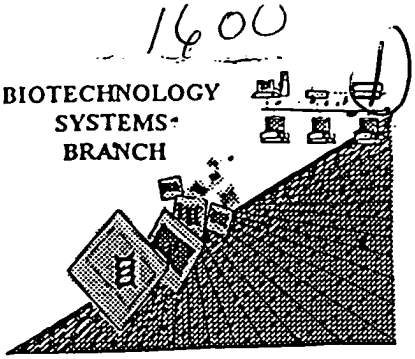
Re-run

1600

BIOTECHNOLOGY SYSTEMS BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/831758

Source: PCT 09

Date Processed by STIC: 10/18/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/831758

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PT

1____Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2____Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3____Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4____Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5____Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6____PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7____Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8____Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequenc <210> sequence id number <400> sequence id number 000
9____Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10____Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11__✓__Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12____PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13____Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represe any value not specifically a nucleotide.

PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/831,758

DATE: 10/18/2001
TIME: 09:51:48

Input Set : A:\PTO.MH.txt
Output Set: N:\CRF3\10182001\I831758.raw

Does Not Comply
Corrected Diskette Needed

Does Not Comply
Corrected Diskette Needed

```
      2 <110> APPLICANT: Takeda Chemical Industries, Ltd.
W-->  3 <120> TITLE OF INVENTION: Novel Protein and its DNA
W-->  4 <130> FILE REFERENCE: 2568WOOP
C-->  5 <140> CURRENT APPLICATION NUMBER: US/09/831,758
C-->  5 <141> CURRENT FILING DATE: 2001-08-17
      5 <150> PRIOR APPLICATION NUMBER: JP 10-323759
      6 <151> PRIOR FILING DATE: 1998-11-13
      7 <150> PRIOR APPLICATION NUMBER: JP 11-060030
      8 <151> PRIOR FILING DATE: 1999-03-08
      9 <150> PRIOR APPLICATION NUMBER: JP 11-106812
     10 <151> PRIOR FILING DATE: 1999-04-14
     11 <150> PRIOR APPLICATION NUMBER: JP 11-166672
     12 <151> PRIOR FILING DATE: 1999-06-14
     13 <150> PRIOR APPLICATION NUMBER: JP 11-221640
     14 <151> PRIOR FILING DATE: 1999-08-04
     15 <150> PRIOR APPLICATION NUMBER: JP 11-259818
     16 <151> PRIOR FILING DATE: 1999-09-14
W--> 17 <160> NUMBER OF SEQ ID: 58
W--> 18 <210> SEQ ID NO: 1
     19 <211> LENGTH: 180
     20 <212> TYPE: PRT
     21 <213> ORGANISM: Human
W--> 22 <400> SEQUENCE: 1
     23 Met Glu Ile Ile Ser Ser Lys Leu Phe Ile Leu Leu Thr Leu Ala Thr
     24  1               5                  10                  15
     25 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Ala Asp Glu Leu Val Met
     26             20                  25                  30
     27 Ser Asn Leu His Ser Lys Glu Asn Tyr Asp Lys Tyr Ser Glu Pro Arg
     28         35                  40                  45
     29 Gly Tyr Pro Lys Gly Glu Arg Ser Leu Asn Phe Glu Glu Leu Lys Asp
     30     50                  55                  60
     31 Trp Gly Pro Lys Asn Val Ile Lys Met Ser Thr Pro Ala Val Asn Lys
     32 65                  70                  75                  80
     33 Met Pro His Ser Phe Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Val
     34                 85                  90                  95
     35 Gln Glu Glu Arg Ser Ala Gly Ala Thr Ala Asn Leu Pro Leu Arg Ser
     36             100                 105                 110
     37 Gly Arg Asn Met Glu Val Ser Leu Val Arg Arg Val Pro Asn Leu Pro
     38         115                 120                 125
     39 Gln Arg Phe Gly Arg Thr Thr Thr Ala Lys Ser Val Cys Arg Met Leu
     40     130                 135                 140
     41 Ser Asp Leu Cys Gln Gly Ser Met His Ser Pro Cys Ala Asn Asp Leu
     42 145                 150                 155                 160
     43 Phe Tyr Ser Met Thr Cys Gln His Gln Glu Ile Gln Asn Pro Asp Gln
     44                 165                 170                 175
     45 Lys Gln Ser Arg
     46             180
```

Erroved: "Artificial Sequence" in field 213; mandatory explanation in field 220 is required.

See page 2 of 9.
See Error Summary Sheet.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING DATE: 10/18/2001
PATENT APPLICATION: US/09/831,758 TIME: 09:51:48

Input Set : A:\PTO.MH.txt
Output Set: N:\CRF3\10182001\I831758.raw

```
     47 <210> SEQ ID NO: 2
     48 <211> LENGTH: 540
     49 <212> TYPE: DNA
     50 <213> ORGANISM: Human
W--> 51 <400> SEQUENCE: 2
C--> 52 atggaaatta tttcatcaaa actattcatt ttattgactt tagccacttc aagcttgtta   60
     53 acatcaaaca ttttttgtgc agatgaatta gtgatgtcca atcttcacag caaagaaaat  120
     54 tatgacaaat attctgagcc tagaggatac ccaaaagggg aaagaagcct caattttgag  180
     55 gaattaaaag attggggacc aaaaaatgtt attaagatga gtacacctgc agtcaataaa  240
     56 atgccacact ccttcgccaa cttgccattg agatttggga ggaacgttca agaagaaaga  300
     57 agtgctggag caacagccaa cctgcctctg agatctgga agaaatatgga ggtgagcctc  360
     58 gtgagacgtg ttcctaacct gccccaaagg tttgggagaa caacaacagc caaaagtgtc  420
     59 tgcaggatgc tgagtgattt gtgtcaagga tccatgcatt caccatgtgc caatgactta  480
     60 ttttactcca tgacctgcca gcaccaagaa atccagaatc ccgatcaaaa acagtcaagg  540
     61 <210> SEQ ID NO: 3
     62 <211> LENGTH: 27
     63 <212> TYPE: DNA
     64 <213> ORGANISM: Artificial Sequence
W--> 65 <220> FEATURE:
     66 <223> OTHER INFORMATION:
W--> 67 <400> SEQUENCE: 3
C--> 68 gggctgcaca tagagactta attttag                                      27
     69 <210> SEQ ID NO: 4
     70 <211> LENGTH: 27
     71 <212> TYPE: DNA
     72 <213> ORGANISM: Artificial Sequence
W--> 73 <220> FEATURE:
     74 <223> OTHER INFORMATION:
W--> 75 <400> SEQUENCE: 4
C--> 76 ctagaccacc tctatataac tgcccat                                     27
     77 <210> SEQ ID NO: 5
     78 <211> LENGTH: 30
     79 <212> TYPE: DNA
     80 <213> ORGANISM: Artificial Sequence
W--> 81 <220> FEATURE:
     82 <223> OTHER INFORMATION:
W--> 83 <400> SEQUENCE: 5
C--> 84 gcacatagag acttaatttt agatttagac                                  30
     85 <210> SEQ ID NO: 6
     86 <211> LENGTH: 27
     87 <212> TYPE: DNA
     88 <213> ORGANISM: Artificial Sequence
W--> 89 <220> FEATURE:
     90 <223> OTHER INFORMATION:
W--> 91 <400> SEQUENCE: 6
C--> 92 catgcacttt gactggtttc caggtat                                     27
     93 <210> SEQ ID NO: 7
     94 <211> LENGTH: 27
     95 <212> TYPE: DNA
```

If 213 "Artificial Sequence
Then 223 mandatory explanation

If 213 "Artificial Sequence"
Then 223 mandatory explanation.

Same ...

RAW SEQUENCE LISTING DATE: 10/18/2001
PATENT APPLICATION: US/09/831,758 TIME: 09:51:48

Input Set : A:\PTO.MH.txt
Output Set: N:\CRF3\10182001\I831758.raw

96 <213> ORGANISM: Artificial Sequence
W--> 97 <220> FEATURE:
98 <223> OTHER INFORMATION:
W--> 99 <400> SEQUENCE: 7
C--> 100 cagctttagg gacaggctcc aggtttc 27
101 <210> SEQ ID NO: 8
102 <211> LENGTH: 196
103 <212> TYPE: PRT
104 <213> ORGANISM: Human
W--> 105 <400> SEQUENCE: 8
106 Met Glu Ile Ile Ser Ser Lys Leu Phe Ile Leu Leu Thr Leu Ala Thr
107 1 5 10 15
108 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Ala Asp Glu Leu Val Met
109 20 25 30
110 Ser Asn Leu His Ser Lys Glu Asn Tyr Asp Lys Tyr Ser Glu Pro Arg
111 35 40 45
112 Gly Tyr Pro Lys Gly Glu Arg Ser Leu Asn Phe Glu Glu Leu Lys Asp
113 50 55 60
114 Trp Gly Pro Lys Asn Val Ile Lys Met Ser Thr Pro Ala Val Asn Lys
115 65 70 75 80
116 Met Pro His Ser Phe Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Val
117 85 90 95
118 Gln Glu Glu Arg Ser Ala Gly Ala Thr Ala Asn Leu Pro Leu Arg Ser
119 100 105 110
120 Gly Arg Asn Met Glu Val Ser Leu Val Arg Arg Val Pro Asn Leu Pro
121 115 120 125
122 Gln Arg Phe Gly Arg Thr Thr Thr Ala Lys Ser Val Cys Arg Met Leu
123 130 135 140
124 Ser Asp Leu Cys Gln Gly Ser Met His Ser Pro Cys Ala Asn Asp Leu
125 145 150 155 160
126 Phe Tyr Ser Met Thr Cys Gln His Gln Glu Ile Gln Asn Pro Asp Gln
127 165 170 175
128 Lys Gln Ser Arg Arg Leu Leu Phe Lys Lys Ile Asp Asp Ala Glu Leu
129 180 185 190
130 Lys Gln Glu Lys
131 195
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 588
134 <212> TYPE: DNA
135 <213> ORGANISM: Human
W--> 136 <400> SEQUENCE: 9
C--> 137 atggaaatta tttcatcaaa actattcatt ttattgactt tagccacttc aagcttgtta 60
138 acatcaaaca ttttttgtgc agatgaatta gtgatgtcca atcttcacag caaagaaaat 120
139 tatgacaaat attctgagcc tagaggatac ccaaaagggg aaagaagcct caattttgag 180
140 gaattaaaag attggggacc aaaaaatgtt attaagatga gtacacctgc agtcaataaa 240
141 atgccacact ccttcgccaa cttgccattg agatttggga ggaacgttca agaagaaaga 300
142 agtgctggag caacagccaa cctgcctctg agatctggaa gaaatatgga ggtgagcctc 360
143 gtgagacgtg ttcctaacct gccccaaagg tttgggagaa caacaacagc caaaagtgtc 420
144 tgcaggatgc tgagtgattt gtgtcaagga tccatgcatt caccatgtgc caatgactta 480

RAW SEQUENCE LISTING DATE: 10/18/2001
PATENT APPLICATION: US/09/831,758 TIME: 09:51:48

Input Set : A:\PTO.MH.txt
Output Set: N:\CRF3\10182001\I831758.raw

```
     145 ttttactcca tgacctgcca gcaccaagaa atccagaatc ccgatcaaaa acagtcaagg  540
     146 agactgctat tcaagaaaat agatgatgca gaattgaaac aagaaaaa               588
     147 <210> SEQ ID NO: 10
     148 <211> LENGTH: 27
     149 <212> TYPE: DNA
     150 <213> ORGANISM: Artificial Sequence
W--> 151 <220> FEATURE:
     152 <223> OTHER INFORMATION:
W--> 153 <400> SEQUENCE: 10
C--> 154 gcctagagga gatctaggct gggagga                                    27
     155 <210> SEQ ID NO: 11
     156 <211> LENGTH: 27
     157 <212> TYPE: DNA
     158 <213> ORGANISM: Artificial Sequence
W--> 159 <220> FEATURE:
     160 <223> OTHER INFORMATION:
W--> 161 <400> SEQUENCE: 11
C--> 162 gggaggaaca tggaagaaga aaggagc                                    27
     163 <210> SEQ ID NO: 12
     164 <211> LENGTH: 27
     165 <212> TYPE: DNA
     166 <213> ORGANISM: Artificial Sequence
W--> 167 <220> FEATURE:
     168 <223> OTHER INFORMATION:
W--> 169 <400> SEQUENCE: 12
C--> 170 gatggtgaat gcatggactg ctggagc                                    27
     171 <210> SEQ ID NO: 13
     172 <211> LENGTH: 27
     173 <212> TYPE: DNA
     174 <213> ORGANISM: Artificial Sequence
W--> 175 <220> FEATURE:
     176 <223> OTHER INFORMATION:
W--> 177 <400> SEQUENCE: 13
C--> 178 ttcctcccaa atctcagtgg caggttg                                    27
     179 <210> SEQ ID NO: 14
     180 <211> LENGTH: 196
     181 <212> TYPE: PRT
     182 <213> ORGANISM: Bovine
W--> 183 <400> SEQUENCE: 14
     184 Met Glu Ile Ile Ser Leu Lys Arg Phe Ile Leu Leu Met Leu Ala Thr
     185  1               5                  10                  15
     186 Ser Ser Leu Leu Thr Ser Asn Ile Phe Cys Thr Asp Glu Ser Arg Met
     187             20                  25                  30
     188 Pro Asn Leu Tyr Ser Lys Lys Asn Tyr Asp Lys Tyr Ser Glu Pro Arg
     189         35                  40                  45
     190 Gly Asp Leu Gly Trp Glu Lys Glu Arg Ser Leu Thr Phe Glu Glu Val
     191     50                  55                  60
     192 Lys Asp Trp Ala Pro Lys Ile Lys Met Asn Lys Pro Val Val Asn Lys
     193 65                  70                  75                  80
```

RAW SEQUENCE LISTING DATE: 10/18/2001
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Input Set : A:\PTO.MH.txt
Output Set: N:\CRF3\10182001\I831758.raw

```
194 Met Pro Pro Ser Ala Ala Asn Leu Pro Leu Arg Phe Gly Arg Asn Met
195                 85                  90                  95
196 Glu Glu Glu Arg Ser Thr Arg Ala Met Ala His Leu Pro Leu Arg Leu
197             100                 105                 110
198 Gly Lys Asn Arg Glu Asp Ser Leu Ser Arg Trp Val Pro Asn Leu Pro
199         115                 120                 125
200 Gln Arg Phe Gly Arg Thr Thr Thr Ala Lys Ser Ile Thr Lys Thr Leu
201     130                 135                 140
202 Ser Asn Leu Leu Gln Gln Ser Met His Ser Pro Ser Thr Asn Gly Leu
203 145                 150                 155                 160
204 Leu Tyr Ser Met Ala Cys Gln Pro Gln Glu Ile Gln Asn Pro Gly Gln
205                 165                 170                 175
206 Lys Asn Leu Arg Arg Arg Gly Phe Gln Lys Ile Asp Asp Ala Glu Leu
207             180                 185                 190
208 Lys Gln Glu Lys
209         195
211 <210> SEQ ID NO: 15
212 <211> LENGTH: 588
213 <212> TYPE: DNA
214 <213> ORGANISM: Bovine
W--> 215 <400> SEQUENCE: 15
C--> 216 atggaaatta tttcattaaa acgattcatt ttattgatgt tagccacttc aagcttgtta   60
     217 acatcaaaca tcttctgcac agacgaatca aggatgccca atctttacag caaaaagaat  120
     218 tatgacaaat attccgagcc tagaggagat ctaggctggg agaaagaaag aagtcttact  180
     219 tttgaagaag taaaagattg ggctccaaaa attaagatga ataaacctgt agtcaacaaa  240
     220 atgccacctt ctgcagccaa cctgccactg agatttggga ggaacatgga agaagaaagg  300
     221 agcactaggg cgatggccca cctgcctctg agactcggaa aaaatagaga ggacagcctc  360
     222 tccagatggg tcccaaatct gccccagagg tttggaagaa caacaacagc caaaagcatt  420
     223 accaagaccc tgagtaattt gctccagcag tccatgcatt caccatctac caatgggcta  480
     224 ctctactcca tggcctgcca gccccaagaa atccagaatc ctggtcaaaa gaacctaagg  540
     225 agacggggat tccagaaaat agatgatgca gaattgaaac aagaaaaa               588
     227 <210> SEQ ID NO: 16
     228 <211> LENGTH: 27
     229 <212> TYPE: DNA
     230 <213> ORGANISM: Artificial Sequence
W--> 231 <220> FEATURE:
     232 <223> OTHER INFORMATION:
W--> 233 <400> SEQUENCE: 16
C--> 234 ccctggggct tcttctgtct tctatgt                                    27
     235 <210> SEQ ID NO: 17
     236 <211> LENGTH: 26
     237 <212> TYPE: DNA
     238 <213> ORGANISM: Artificial Sequence
W--> 239 <220> FEATURE:
     240 <223> OTHER INFORMATION:
W--> 241 <400> SEQUENCE: 17
C--> 242 agcgattcat tttattgact ttagca                                    26
     243 <210> SEQ ID NO: 18
     244 <211> LENGTH: 203
```

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PATENT APPLICATION: US/09/831,758 TIME: 09:51:49

Input Set : A:\PTO.MH.txt
Output Set: N:\CRF3\10182001\I831758.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier
L:4 M:283 W: Missing Blank Line separator, <130> field identifier
L:5 M:270 C: Current Application Number differs, Replaced Current Application No
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:17 M:283 W: Missing Blank Line separator, <160> field identifier
L:18 M:283 W: Missing Blank Line separator, <210> field identifier
L:22 M:283 W: Missing Blank Line separator, <400> field identifier
L:51 M:283 W: Missing Blank Line separator, <400> field identifier
L:52 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=2
L:65 M:283 W: Missing Blank Line separator, <220> field identifier
L:67 M:283 W: Missing Blank Line separator, <400> field identifier
L:68 M:112 C: (48) String data converted to lower case,
L:73 M:283 W: Missing Blank Line separator, <220> field identifier
L:75 M:283 W: Missing Blank Line separator, <400> field identifier
L:76 M:112 C: (48) String data converted to lower case,
L:81 M:283 W: Missing Blank Line separator, <220> field identifier
L:83 M:283 W: Missing Blank Line separator, <400> field identifier
L:84 M:112 C: (48) String data converted to lower case,
L:89 M:283 W: Missing Blank Line separator, <220> field identifier
L:91 M:283 W: Missing Blank Line separator, <400> field identifier
L:92 M:112 C: (48) String data converted to lower case,
L:97 M:283 W: Missing Blank Line separator, <220> field identifier
L:99 M:283 W: Missing Blank Line separator, <400> field identifier
L:100 M:112 C: (48) String data converted to lower case,
L:105 M:283 W: Missing Blank Line separator, <400> field identifier
L:136 M:283 W: Missing Blank Line separator, <400> field identifier
L:137 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=9
L:151 M:283 W: Missing Blank Line separator, <220> field identifier
L:153 M:283 W: Missing Blank Line separator, <400> field identifier
L:154 M:112 C: (48) String data converted to lower case,
L:159 M:283 W: Missing Blank Line separator, <220> field identifier
L:161 M:283 W: Missing Blank Line separator, <400> field identifier
L:162 M:112 C: (48) String data converted to lower case,
L:167 M:283 W: Missing Blank Line separator, <220> field identifier
L:169 M:283 W: Missing Blank Line separator, <400> field identifier
L:170 M:112 C: (48) String data converted to lower case,
L:175 M:283 W: Missing Blank Line separator, <220> field identifier
L:177 M:283 W: Missing Blank Line separator, <400> field identifier
L:178 M:112 C: (48) String data converted to lower case,
L:183 M:283 W: Missing Blank Line separator, <400> field identifier
L:215 M:283 W: Missing Blank Line separator, <400> field identifier
L:216 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=15
L:231 M:283 W: Missing Blank Line separator, <220> field identifier
L:233 M:283 W: Missing Blank Line separator, <400> field identifier
L:234 M:112 C: (48) String data converted to lower case,

VERIFICATION SUMMARY DATE: 10/18/2001
PATENT APPLICATION: US/09/831,758 TIME: 09:51:49

Input Set : A:\PTO.MH.txt
Output Set: N:\CRF3\10182001\I831758.raw

L:239 M:283 W: Missing Blank Line separator, <220> field identifier
L:241 M:283 W: Missing Blank Line separator, <400> field identifier
L:242 M:112 C: (48) String data converted to lower case,
L:247 M:283 W: Missing Blank Line separator, <400> field identifier
L:278 M:283 W: Missing Blank Line separator, <400> field identifier
L:279 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=19
L:294 M:283 W: Missing Blank Line separator, <220> field identifier
L:296 M:283 W: Missing Blank Line separator, <400> field identifier
L:297 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:297 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:297 M:112 C: (48) String data converted to lower case,
L:302 M:283 W: Missing Blank Line separator, <220> field identifier
L:304 M:283 W: Missing Blank Line separator, <400> field identifier
L:305 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21
L:305 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:305 M:112 C: (48) String data converted to lower case,
L:310 M:283 W: Missing Blank Line separator, <220> field identifier
L:312 M:283 W: Missing Blank Line separator, <400> field identifier
L:313 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22
L:313 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:313 M:112 C: (48) String data converted to lower case,
L:318 M:283 W: Missing Blank Line separator, <220> field identifier
L:320 M:283 W: Missing Blank Line separator, <400> field identifier
L:321 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:23
L:321 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:321 M:112 C: (48) String data converted to lower case,
L:326 M:283 W: Missing Blank Line separator, <220> field identifier
L:328 M:283 W: Missing Blank Line separator, <400> field identifier
L:329 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24
L:329 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24
L:329 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:329 M:112 C: (48) String data converted to lower case,
L:334 M:283 W: Missing Blank Line separator, <220> field identifier
L:336 M:283 W: Missing Blank Line separator, <400> field identifier
L:337 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25
L:337 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:337 M:112 C: (48) String data converted to lower case,
L:342 M:283 W: Missing Blank Line separator, <220> field identifier
L:344 M:283 W: Missing Blank Line separator, <400> field identifier
L:345 M:112 C: (48) String data converted to lower case,
L:350 M:283 W: Missing Blank Line separator, <220> field identifier
L:352 M:283 W: Missing Blank Line separator, <400> field identifier
L:353 M:112 C: (48) String data converted to lower case,

VERIFICATION SUMMARY DATE: 10/18/2001
PATENT APPLICATION: US/09/831,758 TIME: 09:51:49

Input Set : A:\PTO.MH.txt
Output Set: N:\CRF3\10182001\I831758.raw

L:361 M:112 C: (48) String data converted to lower case,
L:369 M:112 C: (48) String data converted to lower case,
L:377 M:112 C: (48) String data converted to lower case,
L:385 M:112 C: (48) String data converted to lower case,
L:393 M:112 C: (48) String data converted to lower case,
L:428 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=34
L:445 M:112 C: (48) String data converted to lower case,
L:453 M:112 C: (48) String data converted to lower case,
L:518 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=38
L:572 M:112 C: (48) String data converted to lower case,
L:578 M:112 C: (48) String data converted to lower case,
L:584 M:112 C: (48) String data converted to lower case,
L:590 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=45
L:600 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=46
L:611 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=47
L:625 M:112 C: (48) String data converted to lower case,
L:633 M:112 C: (48) String data converted to lower case,
L:670 M:112 C: (48) String data converted to lower case,

PCT09

RAW SEQUENCE LISTING DATE: 09/27/2001
PATENT APPLICATION: US/09/831,758 TIME: 11:58:46

Input Set : A:\Sequence Listing .txt
Output Set: N:\CRF3\09272001\I831758.raw

```
      2 <110> APPLICANT: Takeda Chemical Industries, Ltd.
W-->  3 <120> TITLE OF INVENTION: Novel Protein and its DNA
W-->  4 <130> FILE REFERENCE: 2568WO0P
C-->  5 <140> CURRENT APPLICATION NUMBER: US/09/831,758
C-->  5 <141> CURRENT FILING DATE: 2001-08-17
      5 <150> PRIOR APPLICATION NUMBER: JP 10-323759
      6 <151> PRIOR FILING DATE: 1998-11-13
      7 <150> PRIOR APPLICATION NUMBER: JP 11-060030
      8 <151> PRIOR FILING DATE: 1999-03-08
      9 <150> PRIOR APPLICATION NUMBER: JP 11-106812
     10 <151> PRIOR FILING DATE: 1999-04-14
     11 <150> PRIOR APPLICATION NUMBER: JP 11-166672
     12 <151> PRIOR FILING DATE: 1999-06-14
     13 <150> PRIOR APPLICATION NUMBER: JP 11-221640
     14 <151> PRIOR FILING DATE: 1999-08-04
     15 <150> PRIOR APPLICATION NUMBER: JP 11-259818
     16 <151> PRIOR FILING DATE: 1999-09-14
E--> 17 <160> NUMBER OF SEQ ID: 58


ERRORED SEQUENCES

     210 <210> SEQ ID NO: 15
     211 <211> LENGTH: 588
     212 <212> TYPE: DNA
     213 <213> ORGANISM: Bovine
W--> 214 <400> SEQUENCE: 15
E--> 214 15
E--> 215 <210> SEQ ID NO: 15
```

check sequence 15 for actual sequence listing

VERIFICATION SUMMARY DATE: 09/27/2001
PATENT APPLICATION: US/09/831,758 TIME: 11:58:47

Input Set : A:\Sequence Listing .txt
Output Set: N:\CRF3\09272001\I831758.raw

L:3 M:283 W: Missing Blank Line separator, <120> field identifier
L:4 M:283 W: Missing Blank Line separator, <130> field identifier
L:5 M:270 C: Current Application Number differs, Replaced Current Application No
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:17 M:283 W: Missing Blank Line separator, <160> field identifier
L:18 M:283 W: Missing Blank Line separator, <210> field identifier
L:22 M:283 W: Missing Blank Line separator, <400> field identifier
L:51 M:283 W: Missing Blank Line separator, <400> field identifier
L:52 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=2
L:65 M:283 W: Missing Blank Line separator, <220> field identifier
L:67 M:283 W: Missing Blank Line separator, <400> field identifier
L:68 M:112 C: (48) String data converted to lower case,
L:73 M:283 W: Missing Blank Line separator, <220> field identifier
L:75 M:283 W: Missing Blank Line separator, <400> field identifier
L:76 M:112 C: (48) String data converted to lower case,
L:81 M:283 W: Missing Blank Line separator, <220> field identifier
L:83 M:283 W: Missing Blank Line separator, <400> field identifier
L:84 M:112 C: (48) String data converted to lower case,
L:89 M:283 W: Missing Blank Line separator, <220> field identifier
L:91 M:283 W: Missing Blank Line separator, <400> field identifier
L:92 M:112 C: (48) String data converted to lower case,
L:97 M:283 W: Missing Blank Line separator, <220> field identifier
L:99 M:283 W: Missing Blank Line separator, <400> field identifier
L:100 M:112 C: (48) String data converted to lower case,
L:105 M:283 W: Missing Blank Line separator, <400> field identifier
L:136 M:283 W: Missing Blank Line separator, <400> field identifier
L:137 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=9
L:151 M:283 W: Missing Blank Line separator, <220> field identifier
L:153 M:283 W: Missing Blank Line separator, <400> field identifier
L:154 M:112 C: (48) String data converted to lower case,
L:159 M:283 W: Missing Blank Line separator, <220> field identifier
L:161 M:283 W: Missing Blank Line separator, <400> field identifier
L:162 M:112 C: (48) String data converted to lower case,
L:167 M:283 W: Missing Blank Line separator, <220> field identifier
L:169 M:283 W: Missing Blank Line separator, <400> field identifier
L:170 M:112 C: (48) String data converted to lower case,
L:175 M:283 W: Missing Blank Line separator, <220> field identifier
L:177 M:283 W: Missing Blank Line separator, <400> field identifier
L:178 M:112 C: (48) String data converted to lower case,
L:183 M:283 W: Missing Blank Line separator, <400> field identifier
L:214 M:283 W: Missing Blank Line separator, <400> field identifier
L:214 M:252 E: No. of Seq. differs, <211>LENGTH:Input:588 Found:0 SEQ:15
L:215 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO:15
L:219 M:283 W: Missing Blank Line separator, <400> field identifier
L:220 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=15

VERIFICATION SUMMARY DATE: 09/27/2001
PATENT APPLICATION: US/09/831,758 TIME: 11:58:47

Input Set : A:\Sequence Listing .txt
Output Set: N:\CRF3\09272001\I831758.raw

L:234 M:283 W: Missing Blank Line separator, <220> field identifier
L:236 M:283 W: Missing Blank Line separator, <400> field identifier
L:237 M:112 C: (48) String data converted to lower case,
L:242 M:283 W: Missing Blank Line separator, <220> field identifier
L:244 M:283 W: Missing Blank Line separator, <400> field identifier
L:245 M:112 C: (48) String data converted to lower case,
L:250 M:283 W: Missing Blank Line separator, <400> field identifier
L:281 M:283 W: Missing Blank Line separator, <400> field identifier
L:282 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=19
L:297 M:283 W: Missing Blank Line separator, <220> field identifier
L:299 M:283 W: Missing Blank Line separator, <400> field identifier
L:300 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:300 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:300 M:112 C: (48) String data converted to lower case,
L:305 M:283 W: Missing Blank Line separator, <220> field identifier
L:307 M:283 W: Missing Blank Line separator, <400> field identifier
L:308 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:21
L:308 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:21
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:308 M:112 C: (48) String data converted to lower case,
L:313 M:283 W: Missing Blank Line separator, <220> field identifier
L:315 M:283 W: Missing Blank Line separator, <400> field identifier
L:316 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22
L:316 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:316 M:112 C: (48) String data converted to lower case,
L:321 M:283 W: Missing Blank Line separator, <220> field identifier
L:323 M:283 W: Missing Blank Line separator, <400> field identifier
L:324 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:23
L:324 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:324 M:112 C: (48) String data converted to lower case,
L:329 M:283 W: Missing Blank Line separator, <220> field identifier
L:331 M:283 W: Missing Blank Line separator, <400> field identifier
L:332 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24
L:332 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24
L:332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:332 M:112 C: (48) String data converted to lower case,
L:337 M:283 W: Missing Blank Line separator, <220> field identifier
L:339 M:283 W: Missing Blank Line separator, <400> field identifier
L:340 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25
L:340 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25
L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:340 M:112 C: (48) String data converted to lower case,
L:345 M:283 W: Missing Blank Line separator, <220> field identifier
L:347 M:283 W: Missing Blank Line separator, <400> field identifier
L:348 M:112 C: (48) String data converted to lower case,

VERIFICATION SUMMARY DATE: 09/27/2001
PATENT APPLICATION: US/09/831,758 TIME: 11:58:47

Input Set : A:\Sequence Listing .txt
Output Set: N:\CRF3\09272001\I831758.raw

L:353 M:283 W: Missing Blank Line separator, <220> field identifier
L:356 M:112 C: (48) String data converted to lower case,
L:364 M:112 C: (48) String data converted to lower case,
L:372 M:112 C: (48) String data converted to lower case,
L:380 M:112 C: (48) String data converted to lower case,
L:388 M:112 C: (48) String data converted to lower case,
L:396 M:112 C: (48) String data converted to lower case,
L:431 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=34
L:448 M:112 C: (48) String data converted to lower case,
L:456 M:112 C: (48) String data converted to lower case,
L:521 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=38
L:575 M:112 C: (48) String data converted to lower case,
L:581 M:112 C: (48) String data converted to lower case,
L:587 M:112 C: (48) String data converted to lower case,
L:593 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=45
L:603 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=46
L:614 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=47
L:628 M:112 C: (48) String data converted to lower case,
L:636 M:112 C: (48) String data converted to lower case,
L:673 M:112 C: (48) String data converted to lower case,
L:17 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (58) Counted (59)

STATISTICS SUMMARY DATE: 09/27/2001
PATENT APPLICATION: US/09/831,758 TIME: 11:58:47

Input Set : A:\Sequence Listing .txt
Output Set: N:\CRF3\09272001\I831758.raw

Application Serial Number: US/09/831,758
Alpha or Numeric: Numeric
Application Class:
Application File Date: 08-17-2001
Art Unit: PCT09
Software Application:
Total Number of Sequences: 59
Total Nucleotides: 9253
Total Amino Acids: 2059
Number of Errors: 3
Number of Warnings: 116
Number of Corrections: 362

MESSAGE SUMMARY

112 C: 180 ((48) String data converted to lower case)
203 E: 1 (No. of Seq. differs)
212 E: 1 ((34) Invalid or duplicate Sequence ID Number)
252 E: 1 (No. of Seq. differs)
258 W: 12 (Mandatory Feature missing)
270 C: 1 (Current Application Number differs)
271 C: 1 (Current Filing Date differs)
283 W: 98 (Missing Blank Line separator)
341 W: 6 ((46) "n" or "Xaa" used)